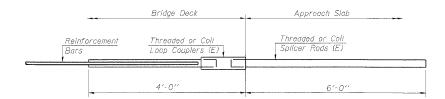


WELDED SECTIONS BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



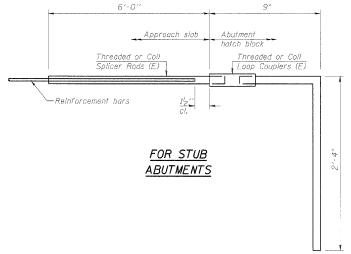
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Da	Splicer	TOF #5	o Dar	
Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strength	= 12.	3 kips -	tension

Stage Construction Line <u>"A "</u> Threaded or Coil Splicer Rods (E) Forms--Washer Face

<u>"B"</u> INSTALLATION AND SETTING METHODS

"A" ; Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strenati	5 = 12.	3 kins -	tension

<u>NOTES</u>

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

of the systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity
(Tension in kips) = 1.25 x fy x A_t

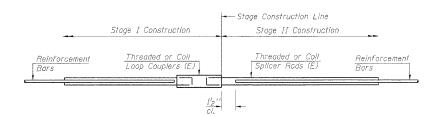
Minimum *Pull-out Strength = 0.66 x fy x A_t
(Tension in kips)

Where fy = Y leld strength of lapped reinforcement bars in ksi.

A, = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES						
		. Strength Requirements				
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension			
#4	1'-8''	14.7	7.9			
#5	2'-2"	23.0	12.3			
#6	2'-7''	33.1	17.4			
#7	3′-5′′	45.1	23.8			
#8	4'-6"	58.9	31.3			
#9	5′-9′′	75.0	39.6			
#10	7′-3′′	95.0	50.3			
#11	9'-0''	117.4	61.8			



<u>STANDARD</u>

Bar lize	No. Assemblies Required	Location
#5	16	Deck
#6	7	Deck
#4	25	W. Approach
#5	46	W. Approach

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0099

benesch Engineers - Surveyors - Planners 205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60801 312-565-0450 Job No. 10050

SHEET NO.12	F. R 290
18 SHEETS	

			57710	0,0,	TE NO. OLL C	7033		
2	F.A.I. RTE.	Ç	SECTION		COUNTY	TOTAL	SHEET NO.	60
_	290 355	22(1, 1	-1, 2&3)RS	- 7	DUPAGE	546	274	1208
					CONTRACT	NO. 60)G51	/12
	FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID PROJECT]=

CHECKED RMG DRAWN CHECKED KWS

DESIGNED

BSD-1

MFB

10 - 1 - 08